

FAST WIRELESS CHARGING 15W

The next step in the development of Wireless Charging

According to a survey run by the Wireless Power Consortium (WPC), already 40% of world population use Wireless Charging regularly. Another important finding of the study: users want additional charging options. Although the majority (66%) use Wireless Charging at home, they also want to be able to charge the smartphone inductively in other places - like their own automobile. Due to numerous advantages, the popularity of Wireless Charging is not surprising; but inductive charging has enormous potential for improvement in terms of charging power, compared to wired charging. This is the next step in the development of Wireless Charging.

Fast Charging

More and more smartphone manufacturers exhaust the Qi standard, which supports 15W maximum charging power. Samsung, with its flagship models (from S7 on), has been one of them for many years. Huawei joined in 2018 with the Mate 20 Pro and sets with the currently released P30 Pro on 15W charging power. Apple will probably catch up with the iPhone 11 this year and also integrate Fast Charging.

Conclusion: Especially in the premium segment, a Wireless Charging power of 15W will establish itself as standard, soon followed by the models of the middle class. Chargers with the appropriate power are already available, but there is no solution which can be used in the automobile.

High demands

For the use in the automobile high demands are made, because besides Wireless Charging numerous other functions (NFC, CAN connection, Bluetooth) are to be integrated in a confined space, without conflicts between the individual technologies to produce. At the same time, high expectations of optics, haptics and safety have to be met. In addition, the strict EMC guidelines in the automotive industry must be adhered to.

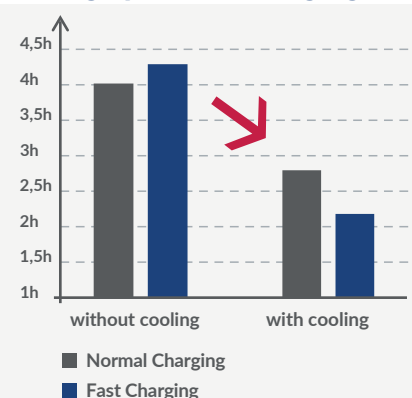
Effective cooling system

The cooling system is of particular importance during development - tests show that active cooling significantly reduces charging time, even with low power transfers (5W). With fast charging (10W+) the difference is even more drastic, because the higher power leads to increased heat development. The reason: In order to avoid heat-related damage, the charging power at elevated temperature automatically decreases, which significantly lengthens the charging process. To achieve optimal charging times, the integration of an effective cooling system is essential.

Requirements

- Intelligent networking
- Effective cooling system
- Mechanical universality
- Free placing of the smartphone
- High quality optics and haptics
- ...

Cooling optimizes charging times



BURY Fast Wireless Charger 15W



Powerful charging and intelligent networking

By launching the Fast Wireless Charger 15W, BURY presents for the first time an adapter, which supports the highest power output of the Qi standard, meeting at the same time the high quality requirements of the automotive industry. Smartphones can be easily and conveniently charged inductively with a power of up to 15W.

The implementation of the CAN connection, NFC and Bluetooth creates the basis for intelligent networking that offers car manufacturers far-reaching options for integrating the smartphone. In addition, a built-in universal antenna coupler improves reception and transmission power of the mobile phone.

Cooling system and quality

The Fast Wireless Charger 15W actively cools the smartphone via an air stream, thus ensuring the safety of the device and the passengers. This effective cooling system achieves optimum charging times. In addition, the valuable energy of the vehicle battery is spared, because the Wireless Charging function shuts off immediately as soon as the charging process is completed.

BURY can draw on 6 years of experience in the field of Wireless Charging development. As a member of the Wireless Power Consortium (WPC) and the AirFuel Alliance, BURY has already implemented a variety of certified solutions for the automotive industry, independent of third-party technologies or software solutions.



Technical data

- 15W Charging function (Qi)
- Active cooling system
- GSM, UMTS, LTE antenna coupler
frequency bands: 700-900MHz,
1700-2200MHz, LTE: 1700-2500MHz
- Frequency bands Induction charging:
105-115kHz and 127-130kHz
- Diagnostic ability
- CAN connection
- NFC
- Bluetooth

Preferred partner of German car manufacturers in the field of Wireless Charging

Many years of experience in smartphone integration

Adaptation to the design philosophy of the manufacturer

Independence from third-party technologies

Development, design and production - all from one source

We will gladly answer your questions: contact@bury.com !

BURY is a global automotive supplier offering original equipment. The range of services provided starts with the standard component and ends with development of individual systems. Advanced manufacturing technology at BURY is adjusted to the needs and expectations of customers. BURY has a reputation of a modern and flexible company across Europe and North America: research, design, development, testing and production - all from one source. The company operates extremely efficiently and expands on a global scale.